

TCP Friendly Rate Control (TFRC):  
Protocol Specification  
RFC3448bis

draft-ietf-dccp-rfc3448bis-01.txt

S. Floyd, M. Handley, J. Padhye, and  
J. Widmer,

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DCCP Working Group

Slides: <http://www.icir.org/floyd/talks.html>

## Changes from RFC 3448 reported last IETF:

- Incorporated changes in the RFC 3448 errata.
- Incorporated the **larger initial windows** specified in RFC 3390.
- Clarified how the average loss interval is calculated when **the receiver has not yet seen eight loss intervals**.
- Added more about **estimating the average segment size**.

# Changes in draft-ietf-dccp-rfc3448bis-01.txt (reported last IETF):

- Specified the receiver's initialization of the feedback timer when the first data packet doesn't have an estimate of the RTT. From feedback from Dado Colussi.
- Added the procedure for sending receiver feedback packets when a coarse-grained timestamp is used. From RFC 4243.

## Changes in draft-ietf-dccp-rfc3448bis-01.txt not reported last IETF:

- Initializing loss history when first packet is lost or ECN-marked (Dado Colussi).
- General clarifications and expanded discussions.
- A number of open issues are listed.
  - These are no longer open issues in draft-ietf-dccp-rfc3448bis-02a.txt, available from <http://www.icir.org/tfrc/>.

## Changes in draft-ietf-dccp-rfc3448bis-02b.txt:

- Caveat: dated March 16.
- Addition of optional "**Limited Receive Rate**" variable in feedback packets.
- Clarified the accumulation of `credits` during idle periods.
- Changed threshold DF in Section 5.5 (History Discounting) from 0.5 to 0.25.
- Several other clarifications.
- **Section 9 lists all changes since RFC 3448.**
- Feedback would be appreciated!

## People who have given feedback:

Dado Colussi,  
Gorry Fairhurst,  
Ladan Gharai,  
Guillaume Jourjon,  
Eddie Kohler,  
Gerrit Renker,  
Arjuna Sathiaselalan, and others.

- **Many thanks!**

## Things that \*could\* be done:

- Reread RFC 4342 (CCID 3) and RFC 4342 Errata to make sure again that everything is included that should be.
- Reread research papers on TFRC to see if their recommended changes or observations should be mentioned ([“http://www.icir.org/tfrc/”](http://www.icir.org/tfrc/)).